

GENERAL PLASTICS MANUFACTURING COMPANY



PLANT: 4910 Burlington Way (206) 473-5000

P.O. BOX 9097 TACOMA, WASHINGTON 98409 MATERIAL SAFETY DATA

TOLL FREE Seattle Renton Area (206) 623-2795

DRAWA DMS 1937

LAST-A-FOAM® RIGID POLYURETHANE FOAM

PRODUCT NAME: LAST-A-FOAM® FR-3700

CHEMICAL FAMILY: Polyether polyurethane.

DESCRIPTION OF INGREDIENTS: The primary chemicals used to produce **LAST-A-FOAM® FR-3700**, rigid polyurethane foams are polyphenylene polymethylene polyisocyanate (polymeric isocyanate) and polyoxypropylene glycols (polyether polyols). These materials react to produce a rigid polyether polyurethane foam. The catalyst system is reactive towards isocyanates and becomes an integral part of the foam. The resulting foam is very inert chemically. There are no halogen containing flame retardants used and there is no trichloromonofluoromethane (freon 11) used in high density (15 to 40 lbs./ft.³) foams.

HEALTH HAZARD INFORMATION: LAST-A-FOAM® FR-3700 foams are chemically inert. Foam dust is generated in many operations and a dust collection system is normally used for a suitable work environment. Studies published by Upjohn in their Technical Bulletin No. 107 show no sensitization on skin contact with polyurethane foam dust and the many years of experience in cutting, planing, shaping, routing, and sanding rigid polyurethane foams at General Plastics Manufacturing Company is in agreement with these studies. The inhalation of foam dust, as with any dust, should be avoided. The studies by Upjohn show no inhalation problems which are peculiar to polyurethane foam dust. Normal protective equipment, such as gloves, eye goggles and masks, which mechanically filter the dust, may be necessary in operations where large amounts of dust are generated.

The possibility exists that individuals who are very sensitive to isocyanates may also be sensitive to the reacted foam. Should this be the case, these individuals need to be assigned to an area which does not have polyurethane foam.

FIRE HAZARD INFORMATION: LAST-A-FOAM® FR-3700 foams are flame resistant. However, like all organic materials, they will burn in the presence of sufficient heat and oxygen. Precautions similar to those for protecting wood products from a fire hazard should be followed. Temperatures above 600°F are required for ignition to occur with a spark. Should LAST-A-FOAM® FR-3700 foams become involved in a fire, they will not melt and will form a char on the outside of the foam. Standard extinguishing materials such as water, CO₂, and dry chemicals are all effective. In a large scale fire, self-contained breathing units may be necessary due to lack of oxygen and smoke, as with most fires.

Polyurethane foam dust, like most dusts, can present an explosion risk. However, the dust collection system necessary for a suitable work environment is more than adequate to eliminate this risk. General Plastics Manufacturing Company has many years of experience in cutting, planing, shaping, routing and sanding LAST-A-FOAM® polyurethane foam made with polymeric isocyanate and never have had any fire or explosion hazards or problems as a result of suitable dust collection.

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General Plastics Manufacturing Company

EXCLUSIVE MANUFACTURERS OF

LAST-A-FOAM ®

HIGH DENSITY RIGID and FLEXIBLE

POLYURETHANE FOAMS

SPECIALISTS IN FILLING HIGH-PERFORMANCE REQUIREMENTS High Density RIGID Polyurethane and Polyisocyanurate Foams For:

FR-3700 & FR-9900 High strength, lightweight, flame resistant interior panel cores FR-10000 & FR-10100

Additional high temperature strength and low smoke generation

CONSTRUCTION

FR-3700/R-9300 High strength, insulated supports for pipes, walls and footings

FR-3700

Cores for structural, insulated and decorative laminated sandwich panels

MARINE

FH-3700

roam cores for boat decks and many

Flotation for semi-deep submersibles

NUCLEAR

FR-9900 & FR-3700 Damage and fire protection for protective shipping containers

INDUSTRIAL

PRUF-STOK for numerical control machine tool tape tryout

MODELS

FR-3700

Topographical and Architectural displays FR-3700

Sculptured sign letters, shapes and figures

SPORTS EQUIPMENT

FR-3700 & R-3300

Snow and water ski cores

High Density FLEXIBLE Polyurethane Foams For:

AEROSPACE

EF-4000 & TF-5070

Shock isolation systems for ballistic

FP-8000 & FP-12000

Flame resistant aircraft interior

crash padding

SHIPPING

EF-4000 & TF-5070

Shock pads or mounts

INDUSTRIAL

EF-4000 & TF-5070

Vibration isolators and dampers for

building structures and mechanical

equipment

SPORTS EQUIPMENT

EF-4000 & TF-5070

Protective padding

Many unique materials suitable for difficult design requirements. Inquiries invited for application engineering of LAST-A-FOAM.® GENERAL PLASTICS MANUFACTURING COMPANY

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